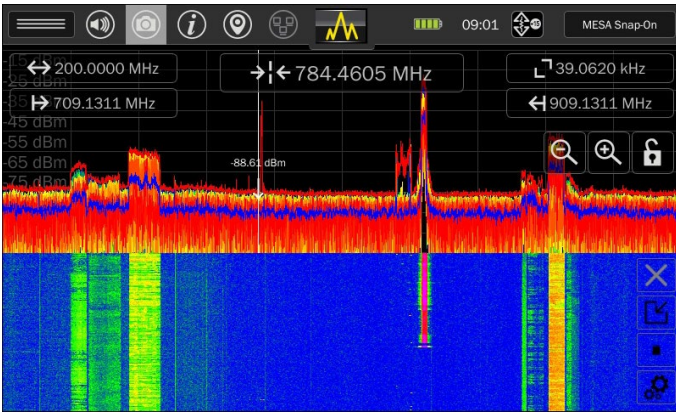


MESA™

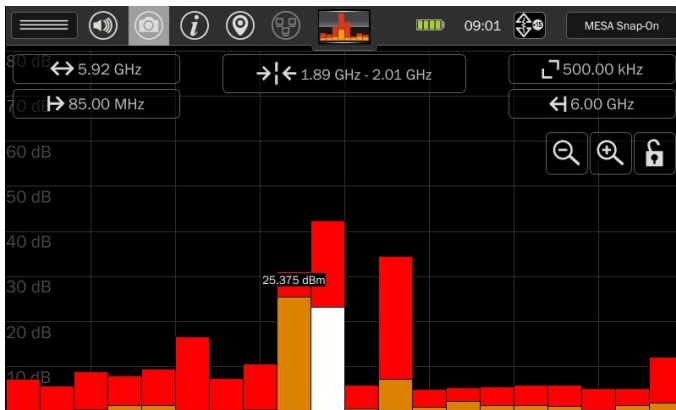
MOBILITY ENHANCED SPECTRUM ANALYZER

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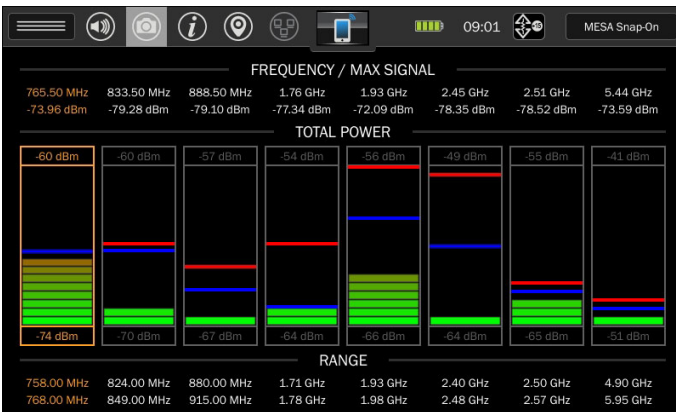
Spectrum Analyzer

The MESA is a portable, handheld spectrum analyzer providing detection up to 6 and 12 GHz (depending on package) and sweeps a 6 GHz span more than 100 GHz per second. It is equipped with powerful functions like Persistence and a Live Raster Waterfall in a handheld package, including other unique modes for detecting and locating unknown RF signals and interference.



SmartBars (patents pending)

The SmartBars mode is an effective way to quickly and easily detect and locate RF energy by displaying new signals, or increased RF energy, compared to a reference trace from outside the target sweep area in a bar graph format. New energy is indicated by an increase in a SmartBar. The user taps on a SmartBar to zoom into the area of interest in the spectrum, and ultimately displays the RF spectrum analyzer view of the newly detected RF energy.



Mobile Bands Detection

The Mobile Bands mode allows the user to quickly and easily monitor RF energy levels for multiple specific RF Bands (i.e. Wifi, GSM, etc.) on one screen. Each Band is customizable to user defined spans. This mode is excellent for quickly searching for RF energy in specific spans.

The screenshot shows the Wifi & Bluetooth mode with a table of detected devices. The interface includes a 'Scan' button and a 'Spectrum View' button.

MAC	SSID	dBm	Ch
A5:77:81:1C:4A:B1	REIFL1_2.4G	-54	1
ED:65:17:BF:F3:7C	REL_GuestNetwork	-54	1
75:05:53:7A:40:51	Crux Iphone7	-87	1
48:93:93:F1:86:0C		-61	3
A6:33:15:62:AA:7E	Reitrngst1	-65	6

Wifi & Bluetooth

The MESA includes modes to detect Wifi and Bluetooth devices, including SSID, channel, and power level. This mode provides additional information beyond the spectrum analyzer mode.



Specifications are subject to change

ACCESSORY ANTENNAS



FIXED DIPOLE: 85 MHz - 6 GHz

A general all-purpose near-field antenna that connects to the top of the MESA allowing users to move around freely without wires.

WHIP ANTENNA: 30 MHz - 6 GHz

A general all-purpose near-field antenna with frequency bandwidth and physical size to suit many scenarios.

VLF LOOP: 10 kHz - 30 MHz

Locates transmitters broadcasting RF at very low frequencies.

CARRIER CURRENT PROBE: 100 kHz - 60 MHz

Tests power lines up to 250 Volts for modulated signals. Users can measure Hot/Neutral, Neutral/Ground, and Hot/Ground pair configurations.

VISIBLE LIGHT/INFRARED: 10 kHz - 50 MHz

Detects infrared and visible light transmitting signals. Includes a switch on the back to change between transmission types.

LOCATOR PROBE: 20 MHz - 6 GHz

Should be used in environments with a very high RF noise floor. It is designed to detect RF signals in close proximity of the probe.

AUDIO TRANSFORMER: 300 Hz - 20 kHz

Has the ability to add positive and negative bias voltage in order to activate microphones present and tests low voltage wiring for unmodulated signals.

ACOUSTIC LEAKAGE DETECTOR: 300 Hz - 20 kHz

Allows users to listen for acoustic leakage vulnerability by placing the probe against structural objects (walls, windows, etc.).

DIRECTIONAL ANTENNA: 70 MHz - 500 MHz

This flag-shaped antenna provides directional coverage for lower frequency signal detection.

ULTRASONIC PROBE: 15 kHz - 80 kHz

Detects sound waves operating above the upper limit of human hearing capabilities.

DOWN CONVERTING ANTENNA: 500 MHz - 12 GHz

Converts signals occurring above the standard 6 GHz threshold so they can be detected and displayed on the MESA.



Designed with mobility in mind, the MESA is easily held in one hand, allowing users to move freely through a target area.

The 7-inch capacitive touchscreen display provides zoom, and drag capabilities with the response expected on modern touch devices.

PRODUCT CHARACTERISTICS

Specifications are subject to change

RF DETECTOR

Sweeps more than 100 GHz per second

Live peak traces can be displayed in 500 kHz (zoomed out) and 38 Hz (zoomed in) resolutions up to 12 GHz

AUDIO

Built-in speaker and external headphones with adjustable volume control

DISPLAY

7 inch (18 cm) capacitive touch screen

INPUT/OUTPUT

2 x USB data ports for software upgrades and file transfer

POWER

AC Input: 100-240V, 50-60Hz

Run time: ~3 hours (typical)

Charge time: ~2.5 hours per battery (typical)

Batteries: Lithium ion rechargeable (2 included)

MECHANICAL

Unit Dimensions: 5 in x 8 in x 2 in (57 cm x 87 cm x 27 cm)

Case Dimensions: 6.25 in x 14.9 in x 18.5 in (15.9 cm x 37.8 cm x 47.0 cm)

Unit weight with battery: 2.4 lbs (1.08 kg)

Case weight including unit and accessories: 15lbs (6.8 kg)



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Cookeville, Tennessee

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